



PENTATEX GROUP

PENTATEX MCU™

Pipeline Repair and Reinforcement

ADHESION

PENTATEX MCU™ works on any metal or plastic pipe: steel, copper, aluminum, galvanized, black iron, stainless steel, and a wide variety of polymers.

Adhesion promoter (sold separately) may be required for fiberglass, polyethylene, polypropylene and PVDF applications.

Also recommended on PVC and CPVC.

The **PMCU™** kit is used in the following areas:

- Oil & Gas
- Petrochemical.
- Industrial processing.
- Pulp and paper.
- Military manufacturing.
- Marine and commercial fishing.
- Irrigation.
- Energy generation.
- Maintenance of facilities.
- Waste/sewage.

COMPATIBLE TECHNOLOGY

PENTATEX MCU™ It is fully compliant with DOT regulations and has been fully tested and approved to ASME PCC-2 art. 4.1 and ISO TS 24817.

PENTATEX MCU™ is a strong fiberglass woven tape impregnated with hydro activated urethane resin that is fast setting and repairs pipes of any diameter in just minutes. It can be activated with drinking water or sea water.

PENTATEX MCU™ it can be installed by one person without special tools or hot work, and provides fast field repairs, bringing lines back online in as little as 30 minutes. Under certain conditions, active leaks (around 60 psi or 4.1 bar or less) from a pinhole can be repaired live line.

TYPICAL USES

- Repair of depressurized leaks in: Joints, pits, cracks.
- Leaks under pressure at: Leaky joints, small hole leaks.

BENEFITS

- Repair of pipes under pressure up to 60 psi (4.1 bar).
- No need to turn off.
- Easy and fast application.
- Adaptable to irregular surfaces.
- No mixing and no mess.
- Sets rock hard in minutes.
- NSF61 approved when PMCU™ Epoxy Stick is used as the primary sealer.

Properties	Metric system	English System
Modulus of elasticity	162,717 bares	2,360,000 psi
Operating temperature	0°C to 121°C	32°F to 250°F
Resistance to shear stress	97 bares	1400 psi
Thickness per layer	0.381 mm	0.015 in
Temp. glass transition	143°C	290°F





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generally applied to systems up to 500 psi. It is recommended for use on pipes up to 36 inches in diameter (contact **PENTATEX GROUP** for applications involving diameters > 18 inches).

PMCU™ CONTAINS:

- Fiberglass woven tape.
- PMCU™** with water activated polyurethane resin.
- PMCU™** Epoxy Bar.
- Nitrile gloves.
- Detailed instructions.

CONTACT US

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Compatibility and Chemical Resistance:

PENTATEX MCU™ combined with PMCU™

Epoxy Stick is generally compatible with a wide range of chemicals and can be used with any type of plastic or metal piping containing hydrocarbons including petrochemicals, fuels, solvents, gases, acids, water, sludge, steam, organic compounds, salts. Strong acids (ph < 3) can affect the durability of the repair.

Contact **PENTATEX GROUP** for more detailed information on chemical resistance.

Potable Water: The **PMCU™** Epoxy Stick included in each **PMCU™** Kit is NSF certified for use in potable water.

Shelf Life: 2 years from date of manufacture when stored between 40°F (5°C) and 83°F (28°C).

Color: White or Black (on request).

Hardness: 63 Shore D (ASTM D 2240).

Resistance to temperature/heat: From 32°F (0°C) to 250°F (121°C) - continuous. 250°F (121°C) to 500°F (260°C) – temporary exposures. If possible, the pipe should be at room temperature before application.

Pressure Holding Capacity: Recommended for pressures up to 500 psi (35.15 kg/cm²). Results may vary based on hole size, pipe type, pipe diameter, pipe contents and application method.

Setting Time: Dries to the touch in 3-5 minutes at ambient temperatures of 50°F (10°C) to 80°F (27°C). The set time is slower below 50°F and faster above 80°F.

Cure Time: Typically cures in 30 minutes at ambient temperatures between 50°F (10°C) and 80°F (27°C). Longer or shorter cure times may occur when ambient temperatures are < 50°F or > 80°F respectively.



Training courses in accordance with ASME PCC-2 and ISO TS 24817 on **PENTATEX MCU™** are available. For field assistance, **PENTATEX GROUP** will provide services, which are limited to on-site supervision, training, certification, project management or technical support. For further assistance,

please contact:

info@pentatexgroup.com